



AIR QUALITY ENGINEER, DEPARTMENT OF CONSUMER AFFAIRS

Exam Code: 0pb32

This multi-level examination is for:

4299-9941-0PB32-01 AIR QUALITY ENGINEER 1, DCA

4299-9942-0PB32-02 AIR QUALITY ENGINEER 2, DCA

Department(s):	Department of Consumer Affairs
Opening Date:	8/25/2010 10:00:00 AM
Final Filing Date:	Continuous
Type of Examination:	Departmental Open
Salary:	MONTHLY-RANGED-SALARY - \$4,608.00 to \$8,378.00
Tenure/Time-base:	Permanent Full-time Permanent Part-time Permanent Intermittent Limited Term Full-time Limited Term Part-Time Limited Term Intermittent
Exam Type:	SPOT Exam Single Selection

INTRODUCTION

An equal opportunity employer to all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age, or sexual orientation.

DRUG FREE STATEMENT

It is an objective of the state of California to achieve a drug-free state work place. Any applicant for state employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the state, the rules governing civil service and the special trust placed in public servants.

WHO SHOULD APPLY?

Candidates who meet the minimum qualifications as stated below may apply for this examination at any time. Once you have taken the examination, you may not reapply for six months. All applicants must meet the education and/or experience requirements as stated on this examination announcement.

FILING INSTRUCTIONS

Final Filing Date: Continuous Filing

Where to Apply: Click on the Exam link at the bottom of this bulletin

SPECIAL TESTING ARRANGEMENTS

If you have a disability and need special assistance or special testing arrangements, contact the Sta Personnel Board, Examinations Services Program at (866) 844-8671, TTY (916) 654-6336, or via tl California Relay Service for the Deaf or Hard of Hearing at (800) 735-2929 from TTY Phones, or at (800) 735-2922 from voice phones.

ELIGIBLE LIST INFORMATION

An open, merged eligible list will be established for the Department of Consumer Affairs. The names of successful competitors will be merged onto the eligible list in order of final scores regardless of test date. Eligibility expires 12 months after it is established. Once you have taken the Training and Experience exam, you may not retake it for 6 (six) months.

REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION

NOTE: All applicants must meet the education and/or experience requirements as stated on this examination announcement.

MINIMUM QUALIFICATIONS

AIR QUALITY ENGINEER I, DEPARTMENT OF CONSUMER AFFAIRS

EITHER I

Two years of experience in the California state service performing the duties of an Air Quality Representative II, Department of Consumer Affairs.

(Promotional candidates who are within six months of satisfying the experience requirement for this class will be admitted to the examination, but they must meet the experience requirement before being eligible for appointment.)

OR II

Two years of experience in air quality control monitoring, regulation, research and development, air quality and emissions data collection and analysis, at least one year of which has been (1) directly involved in the development, implementation, or statistical analysis of the vehicle emissions inspection program or enhancements to the program, and/or in the evaluation and development of advanced emissions diagnostic and repair processes; or (2) as a recognized technical expert, developing complex studies in air quality control or a closely related field.

OR III

Equivalent to graduation from college with a major in the environmental sciences, physics, chemistry, mathematics, engineering, or a closely related field.

(Registration as a senior in a recognized institution will admit applicants to the examination, but they must produce evidence of graduation or its equivalent before they can be considered eligible for appointment.)

AIR QUALITY ENGINEER II, DEPARTMENT OF CONSUMER AFFAIRS

EITHER I

Two years of experience in the California state service performing the duties of an Air Quality Engineer I, Department of Consumer Affairs, Range C.

OR II

Five years of experience in air quality control monitoring, regulation, research and development, air quality and emissions data collection and analysis, at least three years of which have been (1) directly involved in the development, implementation, or statistical analysis of the vehicle emissions inspection program or enhancements to the program, and/or in the evaluation and development of advanced emissions diagnostic and repair processes; or (2) as a recognized technical expert, developing complex studies in air quality control or a closely related field.

(Possession of a Bachelor's Degree in Environmental Sciences, Physics, Chemistry, Mathematics, Engineering, or a closely related field may be substituted for two years of experience; possession of a Master's Degree in the same fields may be substituted for three years of experience; or possession of a Doctoral Degree may be substituted for four years of experience.)

(Candidates who are within six months of satisfying the education/experience requirement for this class will be admitted to the examination, but they must meet the education/experience before being eligible for appointment.)

POSITION DESCRIPTION

AIR QUALITY ENGINEER I, DEPARTMENT OF CONSUMER AFFAIRS

This is the entry and first working level in the series. Incumbents in Range A work under close supervision and perform the less difficult air quality engineering and motor vehicle pollution control work. Duties may include: maintain, calibrate, and procure various equipment for an engineering laboratory; conduct quality control audits; collect, analyze, and evaluate statistical reports and test data to determine compliance with program requirements, laws, and regulations; observe and analyze roadside inspection procedures; assist in the administration of engineering contracts; respond to inquiries and correspondence; research problems and draft reports and recommendations; and do other related work.

AIR QUALITY ENGINEER II, DEPARTMENT OF CONSUMER AFFAIRS

This is the expert level in the series. Incumbents are responsible for a permanent program or for sensitive and/or complex projects involving emerging or undefined issues or problems. These programs or projects typically involve intense conflict dealing with state-of the-art technology, public concern, local, State or Federal Government issues, costs, and business interests. Incumbents at this level possess expertise greater than required for full journey level engineering and analytical assignments. This expertise is critical to completing assignments which directly affect the Department's basic mission. Duties may include all of the above, and: provide technical advice; develop and implement program policies and procedures for field offices, Referee, and Quality Assurance personnel; develop broad policy and legislative proposals which have immediate and long-range impact; and do other related work.

Vacancies exist in Sacramento.

EXAMINATION INFORMATION

Training and Experience Evaluation - Weighted 100.00%

This examination will consist of a Training and Experience Evaluation and is the sole component of the Air Quality Engineer series examination. To obtain a position on the eligible list, a minimum score of 70% must be received. Competitors will receive his/her score immediately upon completion of the Training and Experience evaluation.

[Click here to preview the Training and Experience Evaluation.](#)

SCOPE OF EXAMINATION

Knowledge of:

1. Engineering principles (e.g., materials, stress analysis, statics and dynamics, thermodynamics, heat transfer, circuits, fluids) to prescribe specifications, develop procedures, and evaluate new technologies.
2. Principles of physics to prescribe specifications, develop procedures, and evaluate new technologies.
3. Chemistry principles as they relate to automotive emissions to prescribe specifications, develop procedures, and evaluate new technologies.
4. Scientific research methods to reach sound and defensible conclusions.
5. Statistics and statistical analysis methods to develop reports and/or analyze research data.
6. Emission control systems to set applicable standards and test procedures.
7. Methods for measuring automotive emissions to ensure effective measuring techniques are employed.

Ability to:

1. Examine data for anomalies, patterns, and/or other irregularities to assess for trends and/or potential issues.
2. Write a variety of documents (e.g., plans, technical reports, letters, technical manuals, white paper) using proper English and in a clear, concise, and technically accurate manner to ensure written information is relayed accurately.
3. Read plans, charts, and graphs in order to complete work activities.
4. Read and understand technical documentation in order to understand issues surrounding emissions control systems.
5. Analyze data to assess for trends, conduct research, and/or ensure rules and regulations are followed.
6. Perform database trend analysis to prevent problems and optimize performance to meet the Bureau of Automotive Repair's business needs.
7. Identify station equipment requirements necessary to ensure stations have equipment available to perform accurate inspections and proper repairs.
8. Coordinate work activities with various individuals/entities (e.g., multiple business units, outside agencies, contractors) to ensure requirements meet business needs.
9. Conduct research on technical problems to determine the source of the problem and/or to support management and legislative decision-making processes.
10. Write summaries of study findings to document the conclusions for executive review.
11. Write technical documents (e.g., fact sheets, public notices, internal memoranda,

- white papers) to support management and/or regulatory decision making process.
12. Identify priority on multiple projects and assignments to complete appropriate assignments based upon the Bureau of Automotive Repair's business needs.

VETERANS PREFERENCE

Veterans' Preference credits will be added to the final score of all competitors who are successful in this examination and who qualify for, and have requested, these points through the State Personnel Board. Due to changes in the law, effective January 1, 1996, Veterans who have achieved permanent civil service status are not eligible to receive veterans preference credits.

CAREER CREDITS

Career Credits will not be not granted.

CONTACT INFORMATION

State Personnel Board
Exam Services Unit
801 Capitol Mall
Sacramento, CA 95814

1-866-844-8671

California Relay (Telephone) Service for the Deaf/Hearing Impaired: From TDD: 1-800-735-2929
From Voice 1 (800) 735-2922

DISCLAIMER

Please click on the link below to review the official California State Personnel Board class specification:

<http://spb.ca.gov/jobs/resources/jobspecs.htm>

GENERAL INFORMATION

Applications are available at www.jobs.ca.gov, State Personnel Board offices, local offices of the Employment Development Department and the testing department on this job bulletin.

If you meet the requirements stated on this examination bulletin, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described on this bulletin will be rated against a predetermined job-related rating, and all candidates who pass will be ranked according to their scores.

The Department of Consumer Affairs reserves the right to revise the examination plan to better meet the needs of the service, if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.

Candidates needing special testing arrangements due to a disability must mark the appropriate box on the application and/or contact the testing department.

Hiring Interview Scope: In a hiring interview, in addition to the scope described in this bulletin, the panel will consider education, experience, personal development, personal traits, and fitness. In appraising experience, more weight may be given to the breadth and recency of pertinent experience; and evidence of the candidate's ability to accept and fulfill increasing responsibilities than to the length of his/her experience. Evaluation of a candidate's personal development will include consideration of his/her recognition of his/her own training needs; his/her plans for self-development; and the progress he/she has made in his/her efforts toward self-development. For more information, you may refer to the classification specification <http://www.dpa.ca.gov/textdocs/specs/s9/s9941.txt>

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history and fingerprinting may be required.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) service-wide promotional, 5) departmental open, 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

Veterans' Preference Points: California Law (Government Code 18971-18978) allows the granting of Veterans' Preference Points in open entrance and open, non-promotional entrance examinations. Veterans' Preference Points will be added to the final score of all competitors who are successful in these types of examinations, and who qualify for, and have requested by mail, these points. **In open (only)** entrance examinations, Veterans' Preference Points are granted as follows: 10 points for veterans, widows and widowers of veterans, and spouses of 100% disabled veterans (5 points for widows, widowers, and spouses if the veteran was in the National Guard); and 15 points for disabled veterans. **In open, non-promotional** entrance examinations, Veterans' Preference Points are granted as follows: 10 points for veterans, and 15 points for disabled veterans. Employees who have achieved permanent State civil service status are not eligible to receive Veterans' Preference Points. "Permanent State civil service status" means the status of an employee who is lawfully retained in his/her position after completion of the applicable probationary period. This includes permanent intermittent, part-time, and full-time appointments. In addition, individuals who at any time achieved permanent State civil service status and subsequently resigned, or were dismissed from State civil service are not eligible to receive Veterans' Preference Points. Veteran status is verified by the State Personnel Board (SPB). Directions to apply for Veterans' Preference Points are on the Veterans' Preference Application (Std. Form 1093), which is available at www.spb.ca.gov or from the State Personnel Board, 801 Capitol Mall, Sacramento, CA 95814, and the Department of Veterans Affairs.

The Examination Announcement will tell you whether or not Veterans' Preference Points will be awarded. The points are added to the final score only after the candidate has successfully passed all parts of the examination. Directions to apply for Veterans' Preference Points are on the [Veterans Preference Application \(SPB1093\)](#) available at www.spb.ca.gov or from the State Personnel Board, 801 Capitol Mall, Sacramento, CA 95814, and the Department of Veterans Affairs. Return this form to the State Personnel Board with a copy of your DD214.

**DEPARTMENT OF CONSUMER AFFAIRS
SELECTION SERVICES
P.O. BOX 980428
WEST SACRAMENTO, CA 95798-0428
1 (916) 574-8370**

TAKING THE EXAM

When you click the link below, you will be directed to the Training and Experience Evaluation. At the end of the Training and Experience Evaluation, once you click “Score My Exam,” it will be instantly scored.

[Click here to apply for the Internet Exam for Air Quality Engineer 1 and 2 series](#)